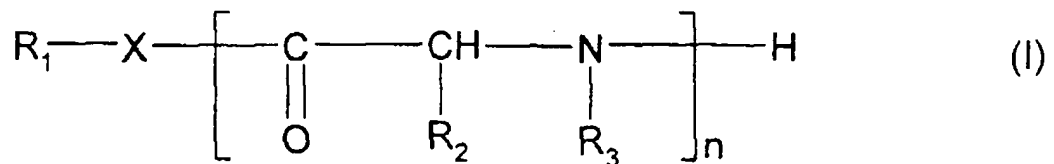## IN THE CLAIMS:

1.   (Currently amended) A process for treatment of at least one condition chosen from seborrhoea of the skin and scalp, disorders associated with seborrhoea, and disorders associated with microorganisms of the genus *Propionibacterium*, said process comprising:

applying to an area in need of said treatment at least one compound chosen from polyamino acid derivatives of formula (I) and salts thereof,
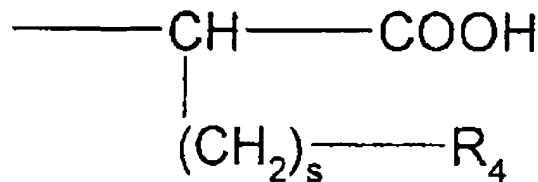
$$R_1 - X - \left[\begin{array}{c} C \\ \| \\ O \end{array} - \begin{array}{c} CH \\ | \\ R_2 \end{array} - \begin{array}{c} N \\ | \\ R_3 \end{array} \right]_n - H \qquad (I)$$

in which:

X is chosen from O, S, NH and NR" wherein R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;

R_1 is chosen from:

(i)   hydrogen;

(ii)   linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals,
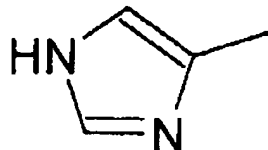
(iii)   radicals of the formula

$$- CH - COOH$$
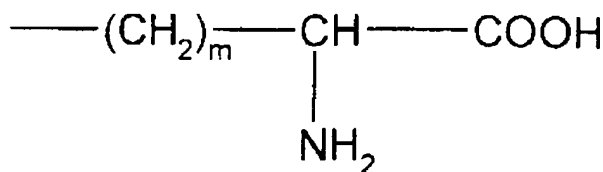$$\quad | \quad$$
$$(CH_2)_s - R_4$$

wherein s is a number chosen from 0, 1, 2, 3 and 4; and R_4 is chosen from hydrogen

and radicals chosen from $-NH_2$, $-OH$, $-SH$, $-CHOHCH_3$, $-CONH_2$, $-NH-C(NH_2)=NH$, -C_6H_5,

$-C_6H_4OH$ and

$$\text{HN} \diagdown \diagup \text{N} \quad \text{(4-methylimidazole)}$$

and;

(iv)   radicals of the formula

$$-(CH_2)_m-\underset{\underset{NH_2}{|}}{CH}-COOH$$

wherein m is a number chosen from 3, 4 and 5;

R_2 is chosen from hydrogen; saturated and unsaturated, linear and branched C_{1-8}

hydrocarbon-based radicals; and radicals chosen from $-CH_2C_6H_5$, $-CH_2C_6H_4OH$,

$-CH_2OH$,

$-CHOHCH_3$, $-(CH_2)_t-NH_2$, wherein t is a number chosen from 3, 4 and 5;

R_3 is chosen from hydrogen and saturated and unsaturated, linear and branched

C_{1-6} hydrocarbon-based radicals; and

n is a number greater than 1 chosen such that the number average molecular

weight of the polyamino acid derivative ranges from ~~100~~ 150 to 200 000;

wherein the repeating unit may be identical or different for the same derivative.

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2.   (Original) A process according to claim 1, wherein said microorganisms are *Propionibacterium acnes*.

3.   (Original) A process according to claim 1, wherein said microorganisms are *Propionibacterium granulosum*.

4.   (Original) A process according to claim 1, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical -NRR', or at least one hydroxyl radical and at least one radical -NRR', wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals.

5.   (Original) A process according to claim 1, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

6.   (Original) A process according to claim 1, wherein said at least one compound is administered in the form of a cosmetic composition.

7.   (Original) A process according to claim 6, wherein the treatment comprises the cosmetic treatment of at least one disorder chosen from seborrhoeic dermatitis, acne, greasy skin with a tendency towards acne, and hyperseborrhoea.

8.   (Original) A process according to claim 1, wherein said at least one compound is administered in the form of a pharmaceutical composition.

9.   (Original) A process according to claim 8, in which the pharmaceutical composition is administered for treating at least one disorder chosen from seborrhoeic dermatitis, acne, greasy skin with a tendency towards acne and hyperseborrhoea.

10.   (Original) A process according to claim 1, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S, NH and NR", wherein R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;

R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals,

R_2 is hydrogen;

R_3 is chosen from saturated, linear and branched C_{1-6} hydrocarbon-based radicals; and

n is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

11.   (Original) A process according to claim 10, wherein R_3 is chosen from methyl and ethyl radicals.

12. (Original) A process according to claim 10, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical -NRR', or at least one hydroxyl radical and at least one radical -NRR', wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals.

13. (Original) A process according to claim 10, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

14. (Currently amended) A process according to claim ~~14~~ 13, wherein n is chosen from a number ranging from 2 to 100.

15. (Original) A process according to claim 14, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

16. (Original) A process according to claim 10, wherein:

X is chosen from O, S, NH and NR", wherein R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;

R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals,

R_2 is hydrogen;

R_3 is chosen from saturated, linear and branched C_{1-6} hydrocarbon-based radicals; and

n is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

17.   (Original) A process according to claim 1, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S and NH;

R_1 is chosen from linear and branched, saturated C_{10-24} hydrocarbon-based radicals; and linear and branched unsaturated hydrocarbon-based radicals;

R_2 is hydrogen;

R_3 is a methyl radical; and

n is chosen from a number ranging from 4 to 50 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

18.   (Original) A process according to claim 17, wherein n is chosen from a number ranging from 4 to 50.

19. (Original) A process according to claim 17, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

20. (Original) A process according to claim 17, wherein X is NH.

21. (Original) A process according to claim 17, wherein R_1 is chosen from linear and branched, saturated C_{10-24} hydrocarbon-based radicals substituted with at least one hydroxyl radical.

22. (Original) A process according to claim 21, wherein said linear and branched, saturated C_{10-24} hydrocarbon-based radicals are substituted with 1, 2, 3, or 4 hydroxyl radicals.

23. (Original) A process according to claim 17, wherein R_1 is chosen from linear and branched unsaturated hydrocarbon-based radicals substituted with at least one hydroxyl radical.

24. (Original) A process according to claim 1, wherein:

X is chosen from O, S and NH;

R_1 is chosen from linear and branched, saturated C_{10-24} hydrocarbon-based radicals; and linear and branched unsaturated hydrocarbon-based radicals;

R_2 is hydrogen;

R_3 is a methyl radical; and

n is chosen from a number ranging from 4 to 50 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

25. (Original) A process according to claim 1, wherein said at least one compound is present in said composition in an amount ranging from 0.001% to 30% by weight, relative to the total weight of the composition.

26. (Original) A process according to claim 25, wherein said at least one compound is present in said composition in an amount ranging from 0.01% to 15% by weight, relative to the total weight of the composition.

27. (Original) A process according to claim 26, wherein said at least one compound is present in said composition in an amount ranging from 0.5% to 5% by weight, relative to the total weight of the composition.

28. (Original) A process according to claim 10, wherein said at least one compound is applied in the form of a composition chosen from a cosmetic composition and a pharmaceutical composition.

29.   (Original) A process according to claim 17, wherein said at least one compound is applied in the form of a composition chosen from a cosmetic composition and a pharmaceutical composition.

30.   (Original) A process according to claim 1, wherein said at least one compound is applied to at least one area chosen from the skin and the scalp.

31.   (Withdrawn) A process for the manufacture of a composition for treatment of at least one condition chosen from seborrhoea of the skin and scalp, disorders associated with seborrhoea, and disorders associated with microorganisms of the genus *Propionibacterium*, said process comprising:

including in said composition at least one poly amino acid derivative chosen from formula (I) and salts thereof ,

$$R_1-X-\left[-\underset{\underset{O}{\|}}{C}-\underset{\underset{R_2}{|}}{CH}-\underset{\underset{R_3}{|}}{N}-\right]_n-H \qquad (I)$$

in which:

X is chosen from O, S, NH and NR" with R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;
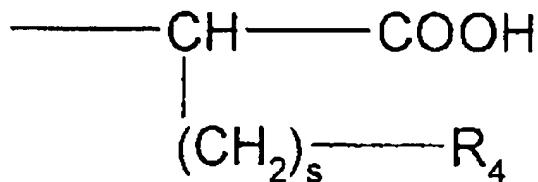
R_1 is chosen from:

(i)   hydrogen;

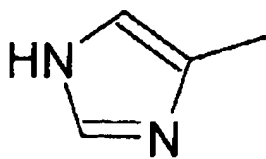(ii)   linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals,

-10-

(iii)   radicals of the formula
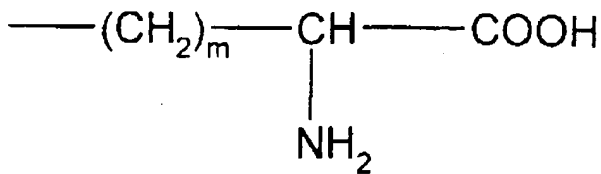
$$-CH-COOH$$
$$|$$
$$(CH_2)_s-R_4$$

wherein s is a number chosen from 0, 1, 2, 3 and 4; and R_4 is chosen from hydrogen

and radicals chosen from $-NH_2$, $-OH$, $-SH$, $-CHOHCH_3$, $-CONH_2$, $-NH-C(NH_2)=NH$, $-$

C_6H_5, $-C_6H_4OH$ and

$$\begin{array}{c} HN \diagup N \\ \text{with methyl} \end{array}$$

and;

(iv)   radicals of the formula

$$-(CH_2)_m-CH-COOH$$
$$|$$
$$NH_2$$

wherein m is a number chosen from 3, 4 and 5;

-        R_2 is chosen from hydrogen; saturated and unsaturated, linear and branched C_{1-8}

hydrocarbon-based radicals; and radicals chosen from $-CH_2C_6H_5$, $-CH_2C_6H_4OH$,

$-CH_2OH$, $-CHOHCH_3$, $-(CH_2)_t-NH_2$ wherein t is a number chosen from 3, 4 and 5;

R_3 is chosen from hydrogen and saturated and unsaturated, linear and branched

C_{1-6} hydrocarbon-based radicals; and

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n is a number greater than 1 chosen such that the number average molecular weight of the polyamino acid derivative ranges from 100 to 200 000;

wherein the repeating unit may be identical or different for the same derivative.

32.   (Withdrawn) A process according to claim 31, wherein said microorganisms are *Propionibacterium acnes*.

33.   (Withdrawn) A process according to claim 31, wherein said microorganisms are *Propionibacterium granulosum*.

34.   (Withdrawn) A process according to claim 31, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical -NRR', or at least one hydroxyl radical and at least one radical -NRR', wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals.

35.   (Withdrawn) A process according to claim 31, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

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36.   (Withdrawn) A process according to claim 31, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S, NH and NR", wherein R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;

R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals,

R_2 is hydrogen;

R_3 is chosen from saturated, linear and branched C_{1-6} hydrocarbon-based radicals; and

n is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

37.   (Withdrawn) A process according to claim 36, wherein R_3 is chosen from methyl and ethyl radicals.

38.   (Withdrawn) A process according to claim 36, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical -NRR', or at least one hydroxyl radical and at least one radical -NRR', wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals.

39.   (Withdrawn) A process according to claim 36, wherein R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

40.   (Withdrawn) A process according to claim 36, wherein n is chosen from a number ranging from 2 to 100.

41.   (Withdrawn) A process according to claim 36, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

42.   (Withdrawn) A process according to claim 36, wherein:

X is chosen from O, S, NH and NR", wherein R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;

R_1 is chosen from linear and branched, saturated and unsaturated C_{8-40} hydrocarbon-based radicals,

R_2 is hydrogen;

R_3 is chosen from saturated, linear and branched C_{1-6} hydrocarbon-based radicals; and

n is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

43. (Withdrawn) A process according to claim 31, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S and NH;

R_1 is chosen from linear and branched, saturated C_{10-24} hydrocarbon-based radicals; and linear and branched unsaturated hydrocarbon-based radicals;

R_2 is hydrogen;

R_3 is a methyl radical; and

n is chosen from a number ranging from 4 to 50 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

44. (Withdrawn) A process according to claim 43, wherein n is chosen from a number ranging from 4 to 50.

45. (Withdrawn) A process according to claim 43, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

46. (Withdrawn) A process according to claim 43, wherein X is NH.

47.   (Withdrawn) A process according to claim 43, wherein R_1 is chosen from linear and branched, saturated C_{10-24} hydrocarbon-based radicals substituted with at least one hydroxyl radical.

48.   (Withdrawn) A process according to claim 47, wherein said linear and branched, saturated C_{10-24} hydrocarbon-based radicals are substituted with 1, 2, 3, or 4 hydroxyl radicals.

49.   (Withdrawn) A process according to claim 43, wherein R_1 is chosen from linear and branched unsaturated hydrocarbon-based radicals substituted with at least one hydroxyl radical.
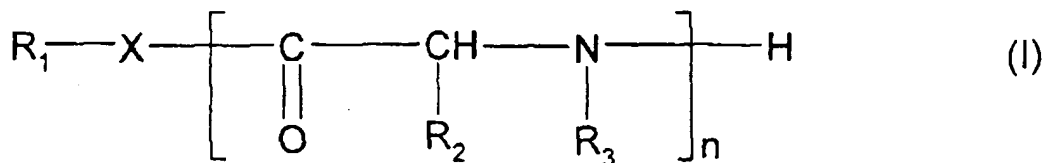
50.   (Withdrawn) A process according to claim 31, wherein said at least one polyamino acid derivative is present in said composition in an amount ranging from 0.001% to 30% by weight, relative to the total weight of the composition.

51.   (Withdrawn) A process according to claim 50, wherein said at least one polyamino acid derivative is present in said composition in an amount ranging from 0.01% to 15% by weight, relative to the total weight of the composition.

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52.   (Withdrawn) A process according to claim 51, wherein said at least one polyamino acid derivative is present in said composition in an amount ranging from 0.5% to 5% by weight, relative to the total weight of the composition.

53.   (Withdrawn) A process according to claim 31, wherein said composition is a pharmaceutical composition.

54.   (Withdrawn) An anti-seborrhoeic composition comprising,

a physiologically acceptable medium; and

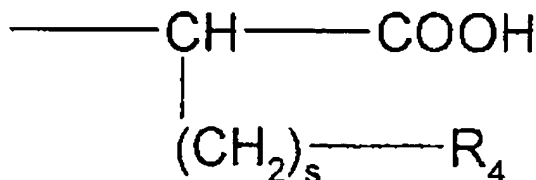an effective amount of at least one polyamino acid derivative of formula (I) and salts thereof,

$$R_1 - X - \left[\begin{array}{c} C \\ \parallel \\ O \end{array} - \begin{array}{c} CH \\ \mid \\ R_2 \end{array} - \begin{array}{c} N \\ \mid \\ R_3 \end{array} \right]_n - H \qquad (I)$$

in which:

X is chosen from O, S, NH and NR" wherein R" is chosen from saturated and unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;
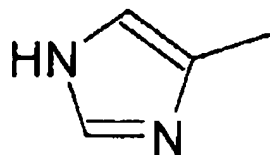
R_1 is chosen from:

(i)   hydrogen;

(ii)   linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based radicals,

(iii)   radicals of the formula

$$- CH - COOH$$
$$\mid$$
$$(CH_2)_s - R_4$$

wherein s is a number chosen from 0, 1, 2, 3 and 4; and R_4 is chosen from hydrogen

and radicals chosen from $-NH_2$, $-OH$, $-SH$, $-CHOHCH_3$, $-CONH_2$, $-NH-C(NH_2)=NH$, $-C_6H_5$, $-C_6H_4OH$ and

and;

(iv)   radicals of the formula

wherein m is a number chosen from 3, 4 and 5;

R_2 is chosen from hydrogen; saturated and unsaturated, linear and branched C_{1-8}

hydrocarbon-based radicals; and radicals chosen from $-CH_2C_6H_5$, $-CH_2C_6H_4OH$,

$-CH_2OH$, $-CHOHCH_3$, $-(CH_2)_t-NH_2$ wherein t is a number chosen from 3, 4 and 5;

R_3 is chosen from hydrogen and saturated and unsaturated, linear and branched

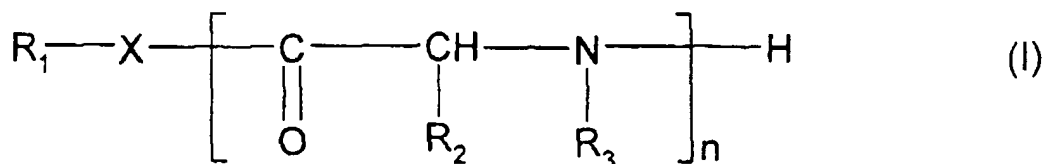C_{1-6} hydrocarbon-based radicals; and

n is a number greater than 1 chosen such that the number average molecular

weight of the polyamino acid derivative ranges from 100 to 200 000;

wherein the repeating unit may be identical or different for the same derivative.

55.   (Withdrawn) An anti-seborrhoeic composition according to claim 54,

wherein said composition is an anti-acne composition.

56. (Withdrawn) An anti-bacterial composition comprising,

a physiologically acceptable medium; and

an effective amount of at least one polyamino acid derivative of formula (I) and
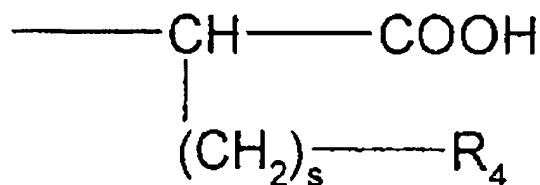
salts thereof for treating bacteria,

$$R_1 - X - \left[\begin{array}{c} C \\ \parallel \\ O \end{array} - \begin{array}{c} CH \\ | \\ R_2 \end{array} - \begin{array}{c} N \\ | \\ R_3 \end{array} \right]_n - H \qquad (I)$$

in which:

X is chosen from O, S, NH and NR" wherein R" is chosen from saturated and

unsaturated, linear and branched C_{1-6} hydrocarbon-based radicals;
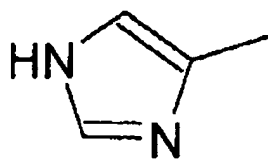
R_1 is chosen from:

(i) hydrogen;

(ii) linear and branched, saturated and unsaturated C_{1-40} hydrocarbon-based

radicals,

(iii) radicals of the formula

$$- CH - COOH$$
$$| $$
$$(CH_2)_s - R_4$$

wherein s is a number chosen from 0, 1, 2, 3 and 4; and R_4 is chosen from hydrogen

and radicals chosen from $-NH_2$, $-OH$, $-SH$, $-CHOHCH_3$, $-CONH_2$, $-NH-C(NH_2)=NH$, -

C_6H_5, $-C_6H_4OH$ and

and;

(iv)   radicals of the formula

$$-(CH_2)_m-\underset{\underset{NH_2}{|}}{CH}-COOH$$

wherein m is a number chosen from 3, 4 and 5;

R_2 is chosen from hydrogen; saturated and unsaturated, linear and branched C_{1-8}

hydrocarbon-based radicals; and radicals chosen from $-CH_2C_6H_5$, $-CH_2C_6H_4OH$,

$-CH_2OH$, $-CHOHCH_3$, $-(CH_2)_t-NH_2$ wherein t is a number chosen from 3, 4 and 5;

R_3 is chosen from hydrogen and saturated and unsaturated, linear and branched

C_{1-6} hydrocarbon-based radicals; and

n is a number greater than 1 chosen such that the number average molecular

weight of the polyamino acid derivative ranges from 100 to 200 000;

wherein the repeating unit may be identical or different for the same derivative.

57.   (Withdrawn) An anti-bacterial composition according to claim 56, wherein

said composition is an anti-acne composition.

58.   (Withdrawn) An antibacterial composition according to claim 55, wherein

the bacteria is of the genus *Propionibacterium*.

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59.   (Withdrawn) An antibacterial composition according to claim 58, wherein the bacteria is at least one of *Propionibacterium acnes* and *Propionibacterium granulosum*.